



YETDA INDUSTRY LTD

S113TW4U 5mm Super Flux 4 pin White LED

7.62mm x 7.62mm with InGaN Dice ◦

Encapsulated with Water Clear Color Package ◦

Four Leads ◦

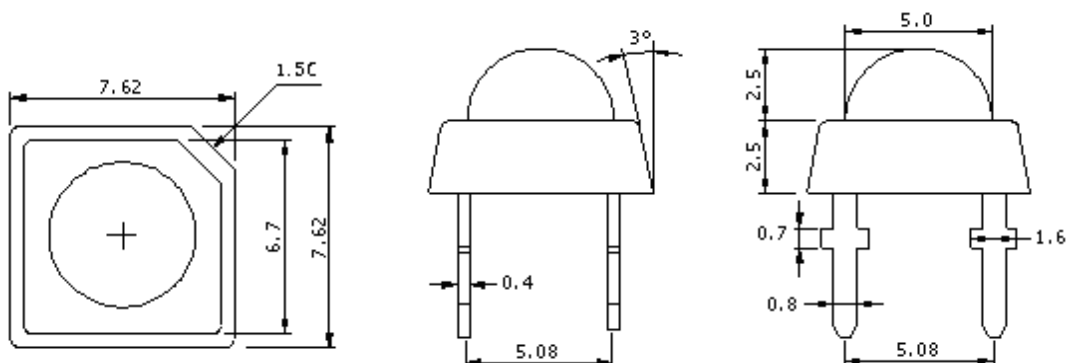
Absolute Maximum Ratings :

Parameter	Maximum Rating	Unit
Power Dissipation	100	mW
Peak Forward Current	100	mA
Continuous Forward Current	25	mA
Operating Temperature Range	-20°C to +75°C	
Storage Temperature Range	-30°C to +80°C	
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(0.063 inch) from body	

Electro-Optical Characteristics (Ta = 25°C)

Parameter Radiant	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	If = 20mA	Vf		3.20	3.4	V
Reverse Current	Vr = 5V	Ir			100	uA
Luminous Intensity	If = 20mA	Iv	3500		4500	mcd
Spectral Bandwidth	If = 20mA	$\Delta\lambda$		10		nm
Color Temperature	If = 20mA			0.31		X
				0.32		Y
Viewing Angle	If = 20mA	2 θ 1/2		70		deg

Package



Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

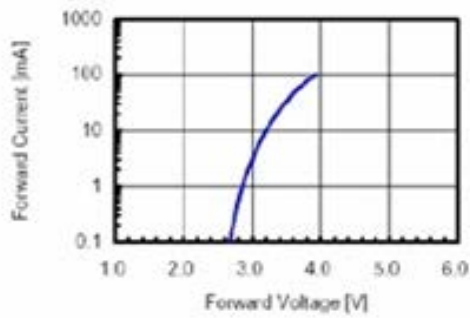


Fig 2. Relative Intensity vs. Forward Current

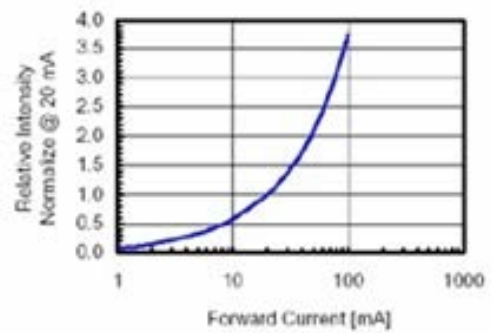


Fig 3. Forward Voltage vs. Temperature

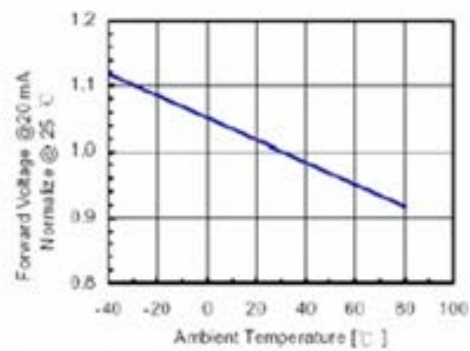


Fig 4. Relative Intensity vs. Temperature

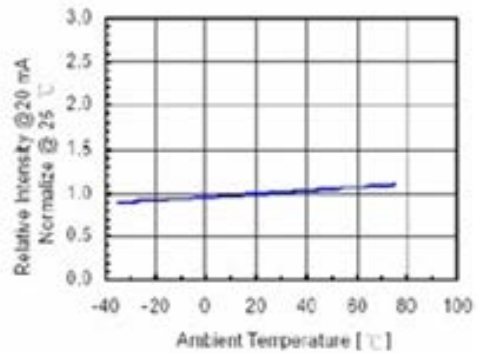


Fig 5. Relative Intensity vs. Wavelength

